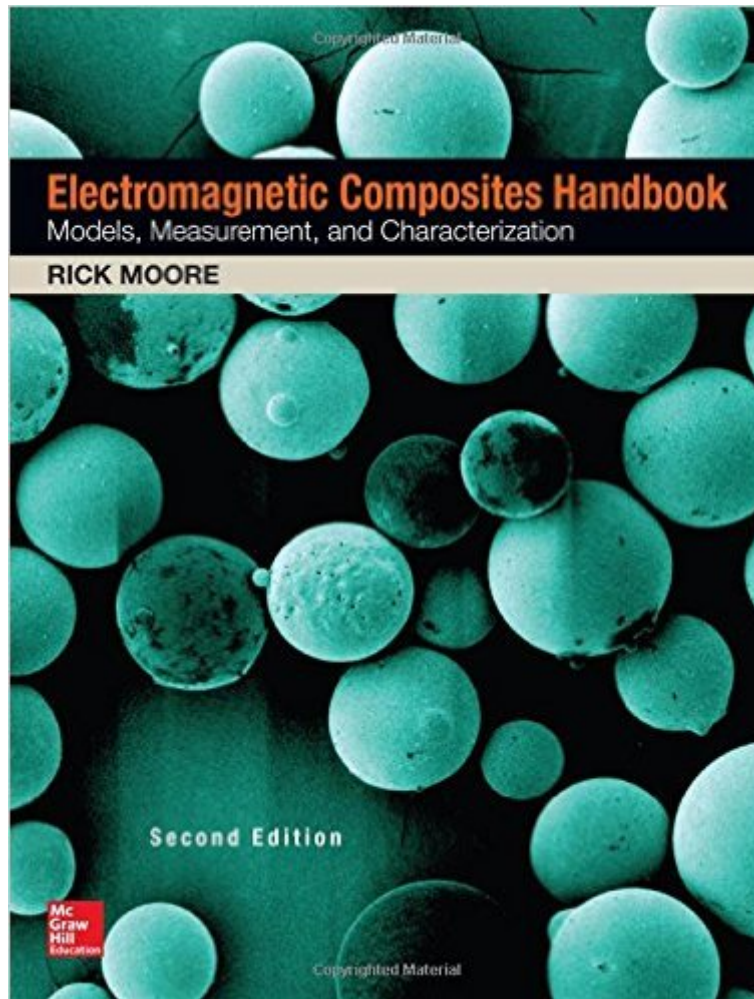


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# Electromagnetic Composites Handbook, Second Edition



## Synopsis

Electromagnetic Composites Data, Principles, and Applications This fully revised engineering and scientific handbook offers complete coverage of electromagnetic modeling and explains the characterization of composite materials from the theoretical, computational, and experimental points of view. The book extends the von Hippel text to include data on additional non-conducting dielectrics; semiconducting, conducting, and magnetic materials; and composites composed of two or more molecularly distinct compounds that range in size from nanometers to centimeters.

Electromagnetic Composites Handbook: Models, Measurement, and Characterization, Second Edition, simplifies the development of multifunctional material designs and includes tabulated data for more than 300 materials. This updated edition covers: Wave Equations and Electromagnetic Constitutive Parameters Sources and Dispersion for Polarization and Permittivity Sources and Dispersion of Magnetization and Permeability Fundamental Observables for Material Measurement Composites and Effective Medium Theories Conducting-Dielectric and Magneto-Dielectric Composites Numerical Models of Composites Electromagnetic Measurement Systems Summary for RF & Millimeter Wavelengths Resonant Techniques for Material Characterization Transmission Line, Free Space Focused Beam and TE<sub>10</sub>N Measurement Details Micron and Nano Scale Composites

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